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Claims

1   1. An interactive computer controlled display system
2   with speech command input recognition comprising:
3   means for predetermining a plurality of speech
4   commands each associated with a corresponding plurality
5   of system actions,
6   means for concurrently detecting speech commands and
7   speech queries for locating commands,
8   means responsive to a detected speech command for
9   carrying out the system action corresponding to the
10   command, and
11   means responsive to a detected speech query for
12   attempting to locate commands applicable to said query.

1   2. The system of claim 1 further including means for
2   displaying said detected speech query.

1   3. The system of claim 2 further including means for
2   displaying located commands applicable to said query.

1   4. The system of claim 3 further including means
2   responsive to a detected speech query for modifying a
3   displayed prior speech query whereby a user may speak a
4   displayed located command to activate said means for
5   carrying out a system action or speak a query to modify
6   said prior query to locate commands other than said
7   displayed commands without switching between command and
8   query modes of speech detection.

1   5. The system of claim 4 wherein said means for
2   modifying said prior speech query replaces said prior
3   query with a new speech query.

1   6.   A method for providing speech command input to an
2   interactive computer controlled display system with
3   speech command input recognition comprising:
4   predetermining a plurality of speech commands each
5   associated with a corresponding plurality of system
6   actions,
7   concurrently detecting speech commands and speech
8   queries for locating commands,
9   responsive to a detected speech command, carrying
10 out the system action corresponding to the command, and
11   responsive to a detected speech query, attempting to
12 locate commands applicable to said query.

1   7.   The method of claim 6 further including the step of
2   displaying said detected speech query.

1   8.   The method of claim 7 further including the step of
2   displaying located commands applicable to said query.

1   9.   The method of claim 8 further including the step
2   responsive to a detected speech query of modifying a
3   displayed prior speech query whereby a user may speak a
4   displayed located command to activate said carrying out
5   of a system action or speak a query to modify said prior
6   query to locate commands other than said displayed
7   commands without switching between command and query
8   modes of speech detection.

1   10. The method of claim 9 wherein said step of modifying
2   said prior speech query replaces said prior query with a
3   new speech query.

1 11. A computer program having program code included on a
2 computer readable medium for speech command input
3 recognition in an interactive computer controlled display
4 system comprising:
5   means for predetermining a plurality of speech
6 commands each associated with a corresponding plurality
7 of system actions,
8   means for concurrently detecting speech commands and
9 speech queries for locating commands,
10   means responsive to a detected speech command for
11 carrying out the system action corresponding to the
12 command, and
13   means responsive to a detected speech query for
14 attempting to locate commands applicable to said query.

1 12. The computer program of claim 11 further including
2 means for displaying said detected speech query.

1 13. The computer program of claim 12 further including
2 means for displaying located commands applicable to said
3 query.

1 14. The computer program of claim 13 further including
2 means responsive to a detected speech query for modifying
3 a displayed prior speech query whereby a user may speak a
4 displayed located command to activate said means for
5 carrying out a system action or speak a query to modify
6 said prior query to locate commands other than said
7 displayed commands without switching between command and
8 query modes of speech detection.

1   15.   The computer program of claim 14 wherein said means

2   for modifying said prior speech query replaces said prior

3   query with a new speech query.